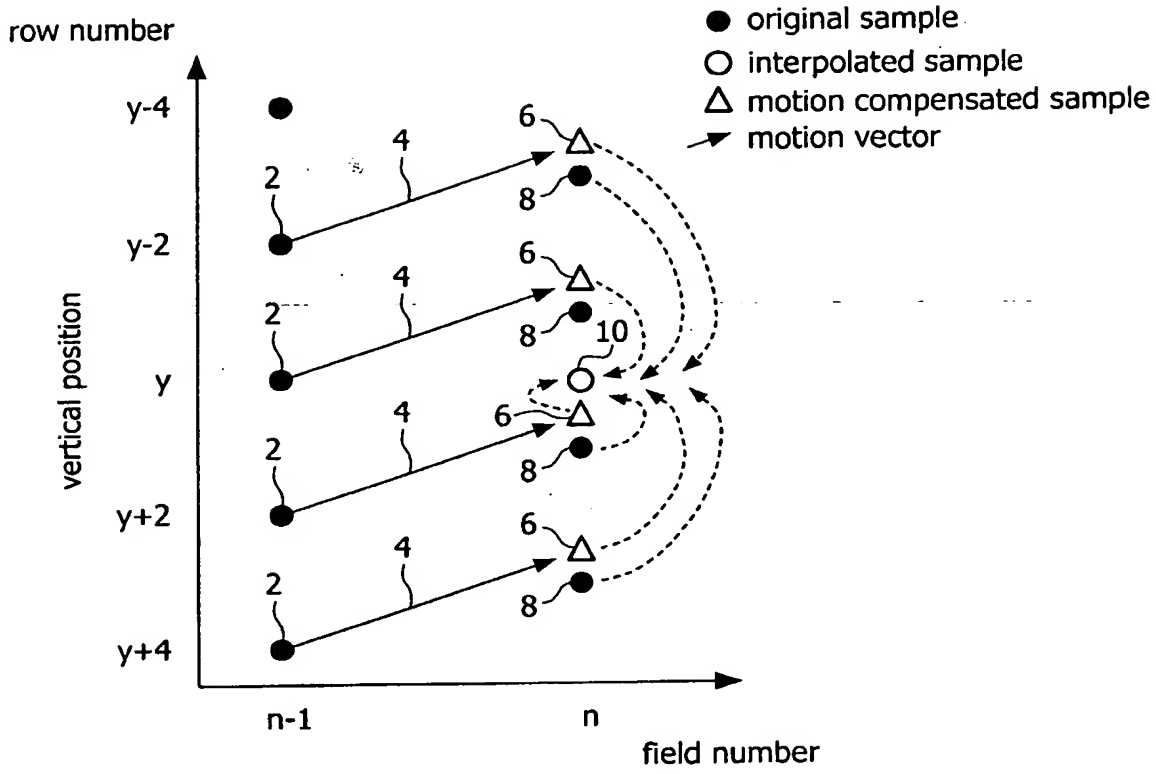
row number
original sample
interpolated sample
motion compensated sample
motion vector
y-4
y-2
y
y+2
y+4
vertical position
n-1
n
field number
2
4
6
8
10

FIG. 1

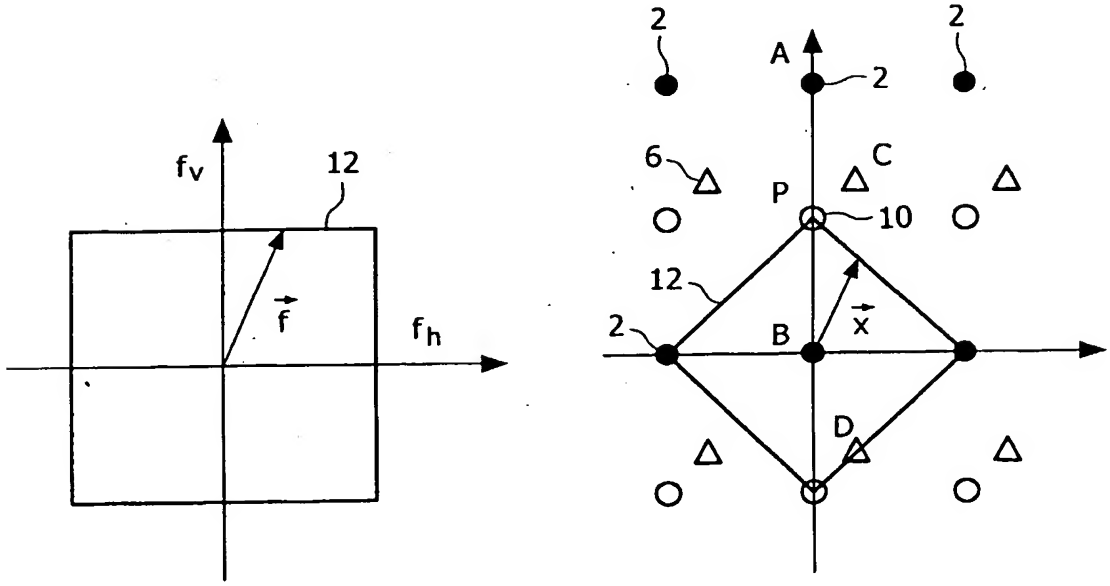
$f_v$
12
$\vec{f}$
$f_h$
2
A
C
6
P
10
12
B
$\vec{x}$
D

FIG. 2

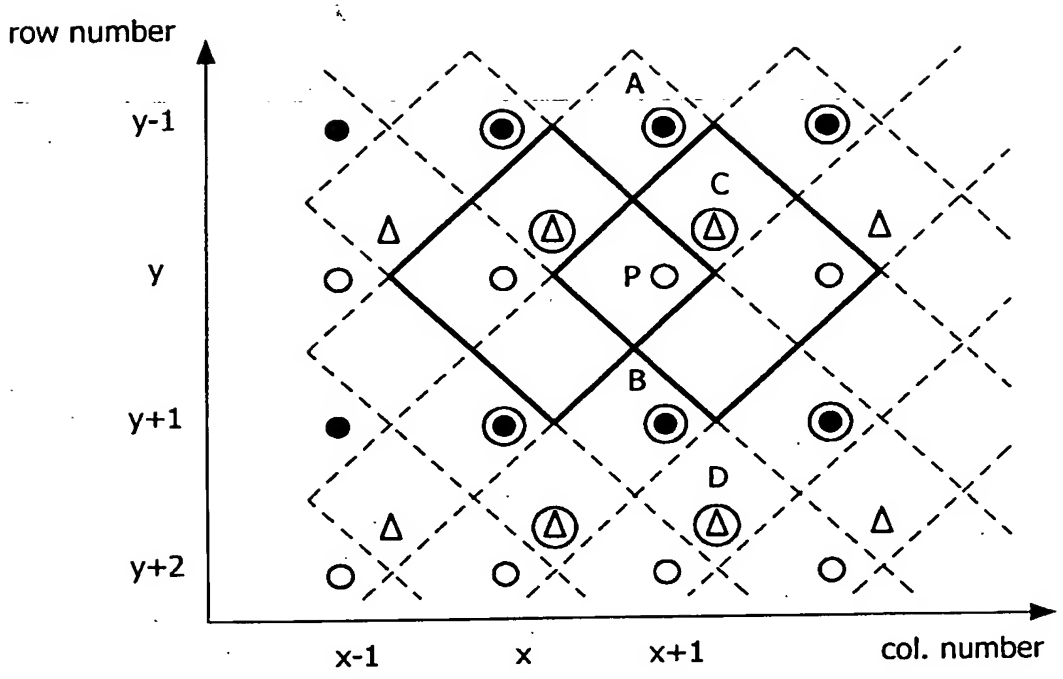


FIG. 3

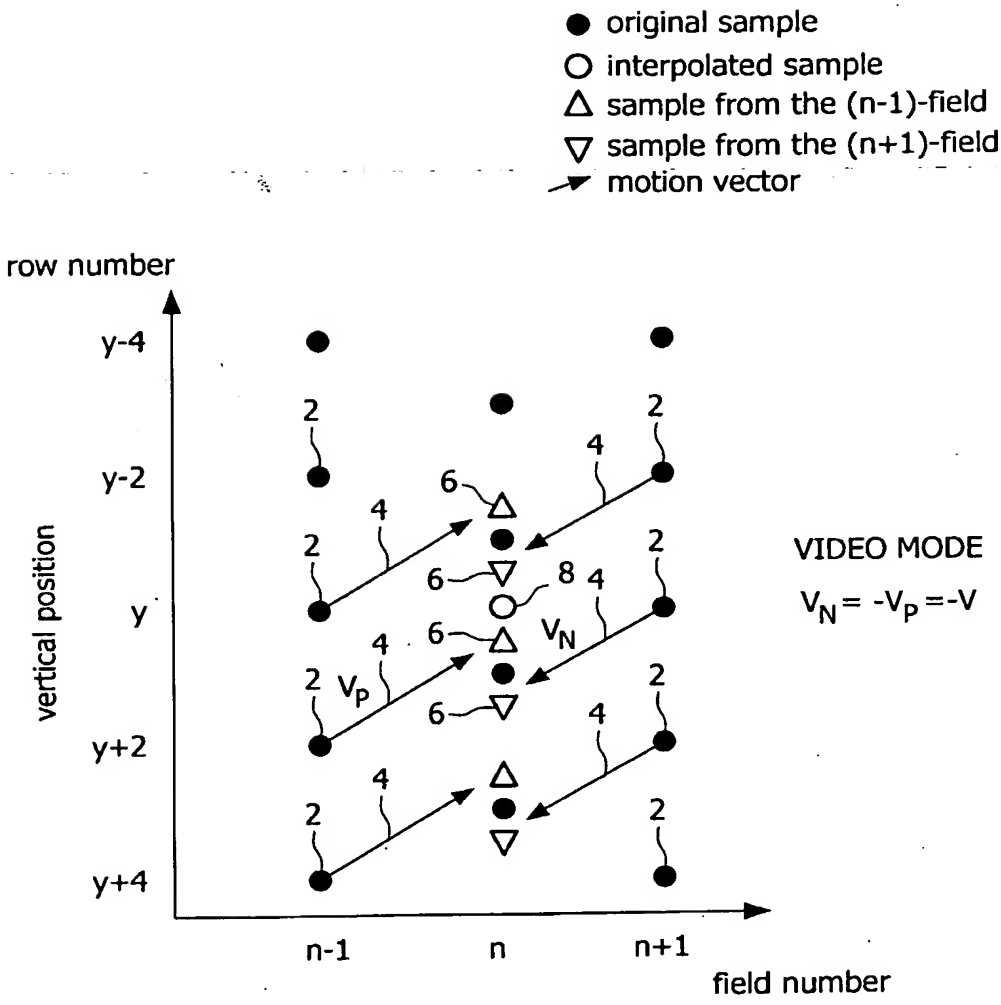
original sample
interpolated sample
sample from the (n-1)-field
sample from the (n+1)-field
motion vector
row number
y-4
y-2
y
y+2
y+4
vertical position
n-1
n
n+1
field number
VIDEO MODE
$V_N = -V_P = -V$
$V_N$
$V_P$

FIG. 4a

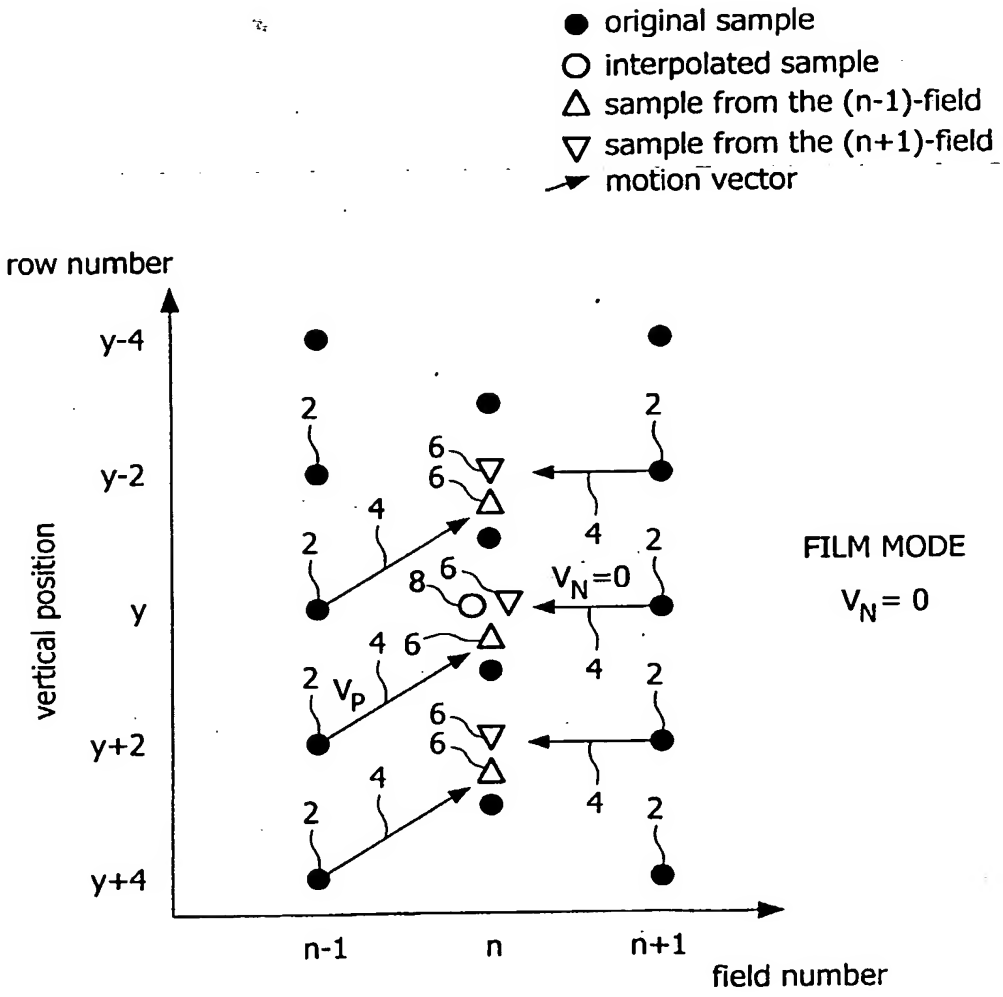
original sample
interpolated sample
sample from the (n-1)-field
sample from the (n+1)-field
motion vector
row number
vertical position
y-4
y-2
y
y+2
y+4
n-1
n
n+1
field number
$V_P$
$V_N$=0
FILM MODE
$V_N$= 0

FIG. 4b

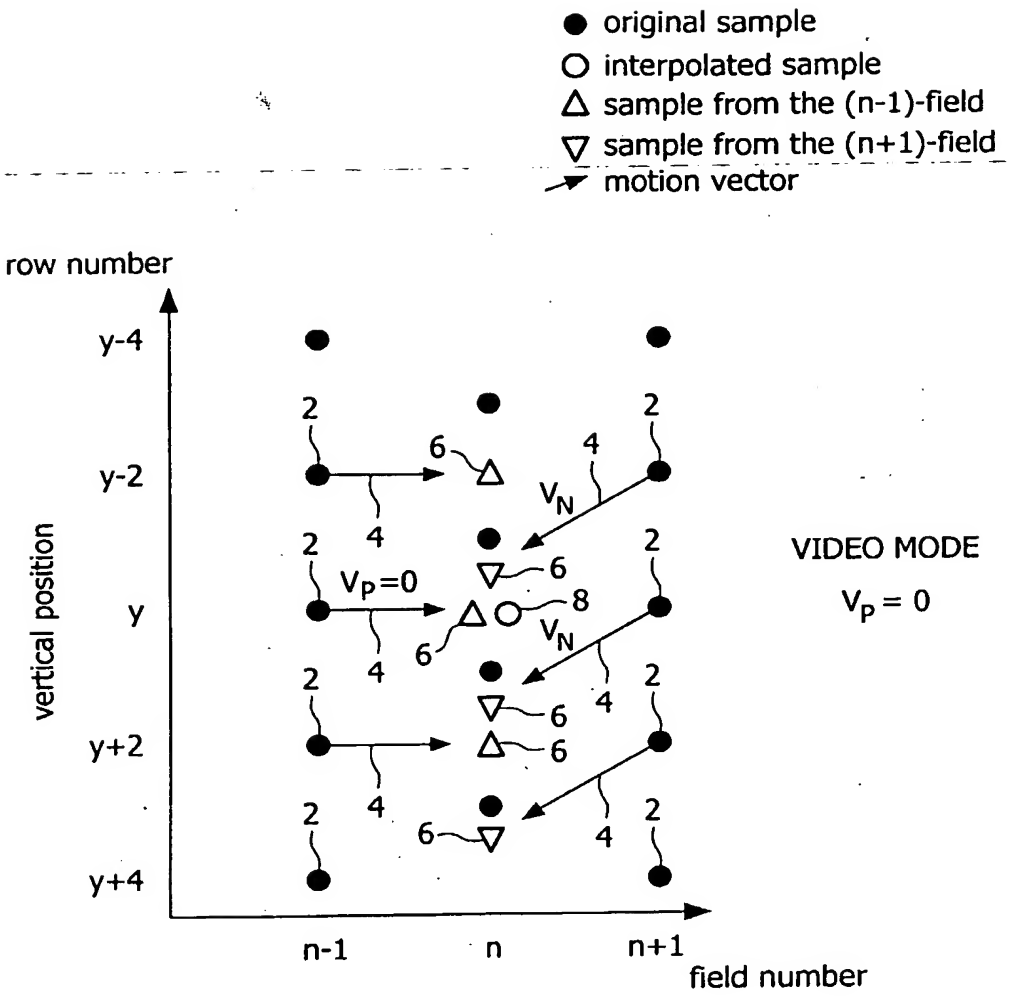
original sample
interpolated sample
sample from the (n-1)-field
sample from the (n+1)-field
motion vector
row number
vertical position
y-4
y-2
y
y+2
y+4
n-1
n
n+1
field number
VIDEO MODE
$V_P = 0$
$V_P=0$
$V_N$
2
4
6
8

FIG. 4c

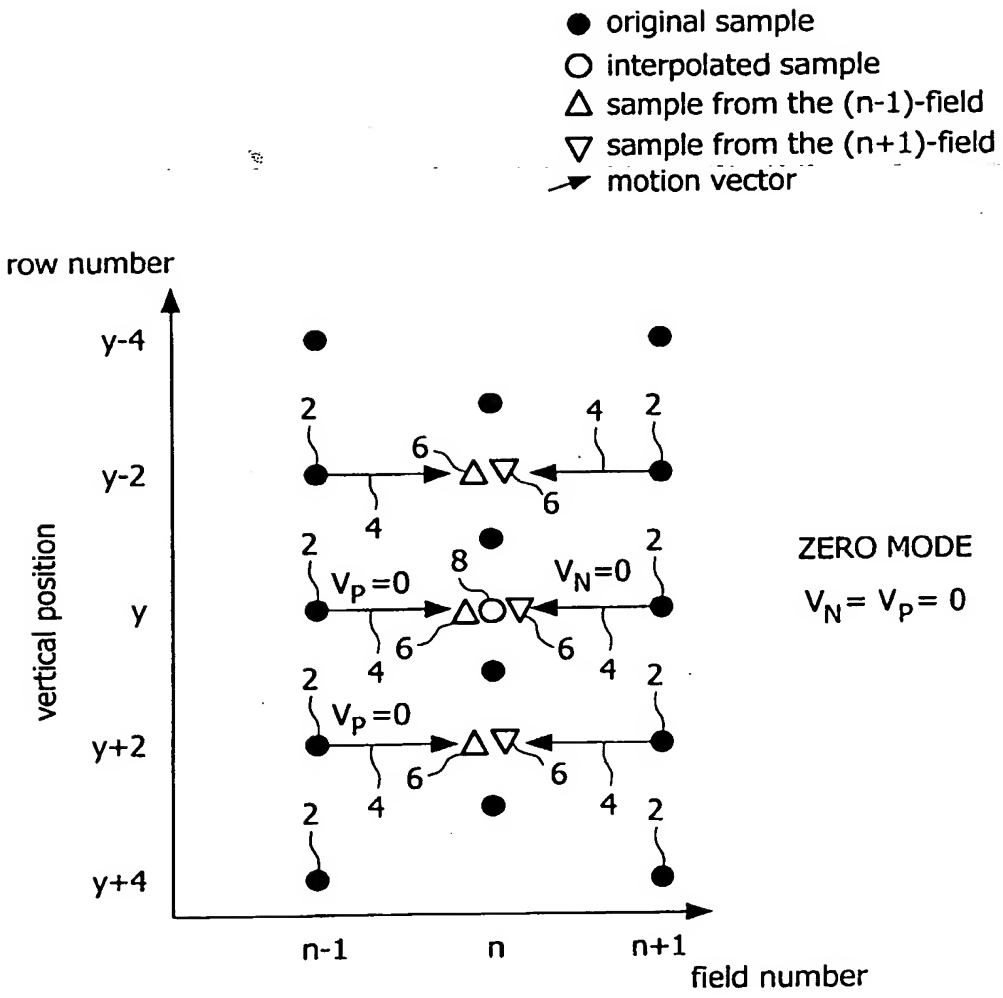
original sample
interpolated sample
sample from the (n-1)-field
sample from the (n+1)-field
motion vector
row number
y-4
y-2
y
y+2
y+4
vertical position
n-1
n
n+1
field number
$V_P=0$
$V_N=0$
ZERO MODE
$V_N = V_P = 0$

FIG. 4d